

# Biology 10

# Cell

# Reproduction

# MCQ

Author: OpenStax College

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## 4. Chapter: Biology 10 Cell Reproduction MCQ

### 1. Biology 10 Cell Reproduction MCQ Questions

4.1.1. A diploid cell has\_\_\_\_\_ the number of chromosomes as a haploid cell.

Author: OpenStax College

A diploid cell has\_\_\_\_\_ the number of chromosomes as a haploid cell.

Please choose only one answer:

- one-fourth
- half
- twice
- four times

Check the answer of this question online at QuizOver.com:

Question: [A diploid cell has the number of chromosomes OpenStax College Biology](#)

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#### 4.1.2. An organism's traits are determined by the specific combination of ...

Author: OpenStax College

An organism's traits are determined by the specific combination of inherited \_\_\_\_\_.

Please choose only one answer:

- cells.
- genes.
- proteins.
- chromatids.

Check the answer of this question online at QuizOver.com:

Question: [An organism's traits are determined by OpenStax College Biology 1](#)

Flashcards:

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### 4.1.3. The first level of DNA organization in a eukaryotic cell is maintai...

Author: OpenStax College

The first level of DNA organization in a eukaryotic cell is maintained by which molecule?

Please choose only one answer:

- cohesin
- condensin
- chromatin
- histone

Check the answer of this question online at QuizOver.com:

Question: [The first level of DNA organization in a OpenStax College Biology](#)

Flashcards:

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#### 4.1.4. Identical copies of chromatin held together by cohesin at the centr...

Author: OpenStax College

Identical copies of chromatin held together by cohesin at the centromere are called \_\_\_\_\_.

Please choose only one answer:

- histones.
- nucleosomes.
- chromatin.
- sister chromatids.

Check the answer of this question online at QuizOver.com:

Question: [Identical copies of chromatin held together OpenStax College Biology](#)

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#### 4.1.5. Chromosomes are duplicated during what stage of the cell cycle?

Author: OpenStax College

Chromosomes are duplicated during what stage of the cell cycle?

Please choose only one answer:

- G1 phase
- S phase
- prophase
- prometaphase

Check the answer of this question online at QuizOver.com:

Question: [Chromosomes are duplicated during what OpenStax College Biology 1](#)

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#### 4.1.6. Which of the following events does not occur during some stages of ...

Author: OpenStax College

Which of the following events does not occur during some stages of interphase?

Please choose only one answer:

- DNA duplication
- organelle duplication
- increase in cell size
- separation of sister chromatids

Check the answer of this question online at QuizOver.com:

Question: [Which of the following events does not OpenStax College Biology 1](#)

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#### 4.1.7. The mitotic spindles arise from which cell structure?

Author: OpenStax College

The mitotic spindles arise from which cell structure?

Please choose only one answer:

- centromere
- centrosome
- kinetochore
- cleavage furrow

Check the answer of this question online at QuizOver.com:

Question: [The mitotic spindles arise from which cell OpenStax College Biology](#)

Flashcards:

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#### 4.1.8. Attachment of the mitotic spindle fibers to the kinetochores is a c...

Author: OpenStax College

Attachment of the mitotic spindle fibers to the kinetochores is a characteristic of which stage of mitosis?

Please choose only one answer:

- prophase
- prometaphase
- metaphase
- anaphase

Check the answer of this question online at QuizOver.com:

Question: [Attachment of the mitotic spindle fibers OpenStax College Biology](#)

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#### 4.1.9. Unpacking of chromosomes and the formation of a new nuclear envelop...

Author: OpenStax College

Unpacking of chromosomes and the formation of a new nuclear envelope is a characteristic of which stage of mitosis?

Please choose only one answer:

- prometaphase
- metaphase
- anaphase
- telophase

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Unpacking of chromosomes and the formation OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/unpacking-of-chromosomes-and-the-formation-openstax-college-biology?pdf=1505>

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#### 4.1.10. Separation of the sister chromatids is a characteristic of which st...

Author: OpenStax College

Separation of the sister chromatids is a characteristic of which stage of mitosis?

Please choose only one answer:

- prometaphase
- metaphase
- anaphase
- telophase

Check the answer of this question online at QuizOver.com:

Question: [Separation of the sister chromatids is a OpenStax College Biology](#)

Flashcards:

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#### 4.1.11. The chromosomes become visible under a light microscope during whic...

Author: OpenStax College

The chromosomes become visible under a light microscope during which stage of mitosis?

Please choose only one answer:

- prophase
- prometaphase
- metaphase
- anaphase

Check the answer of this question online at QuizOver.com:

Question: [The chromosomes become visible under a OpenStax College Biology 1](#)

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#### 4.1.12. The fusing of Golgi vesicles at the metaphase plate of dividing pla...

Author: OpenStax College

The fusing of Golgi vesicles at the metaphase plate of dividing plant cells forms what structure?

Please choose only one answer:

- cell plate
- actin ring
- cleavage furrow
- mitotic spindle

Check the answer of this question online at QuizOver.com:

Question: [The fusing of Golgi vesicles at the OpenStax College Biology 10 Quest](#)

Flashcards:

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Interactive Question:

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#### 4.1.13. At which of the cell cycle checkpoints do external forces have the ...

Author: OpenStax College

At which of the cell cycle checkpoints do external forces have the greatest influence?

Please choose only one answer:

- G1 checkpoint
- G2 checkpoint
- M checkpoint
- G0 checkpoint

Check the answer of this question online at QuizOver.com:

Question: [At which of the cell cycle checkpoints do OpenStax College Biology](#)

Flashcards:

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#### 4.1.14. What is the main prerequisite for clearance at the G2 checkpoint?

Author: OpenStax College

What is the main prerequisite for clearance at the G2 checkpoint?

Please choose only one answer:

- cell has reached a sufficient size
- an adequate stockpile of nucleotides
- accurate and complete DNA replication
- proper attachment of mitotic spindle fibers to kinetochores

Check the answer of this question online at QuizOver.com:

Question: [What is the main prerequisite for clearance OpenStax College Biology](#)

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4.1.15. If the M checkpoint is not cleared, what stage of mitosis will be b...

Author: OpenStax College

If the M checkpoint is not cleared, what stage of mitosis will be blocked?

Please choose only one answer:

- prophase
- prometaphase
- metaphase
- anaphase

Check the answer of this question online at QuizOver.com:

Question: [If the M checkpoint is not cleared what OpenStax College Biology](#)

Flashcards:

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#### 4.1.16. Which protein is a positive regulator that phosphorylates other pro...

Author: OpenStax College

Which protein is a positive regulator that phosphorylates other proteins when activated?

Please choose only one answer:

- p53
- retinoblastoma protein (Rb)
- cyclin
- cyclin-dependent kinase (Cdk)

Check the answer of this question online at QuizOver.com:

Question: [Which protein is a positive regulator that OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/which-protein-is-a-positive-regulator-that-openstax-college-biology?pdf=1505>

Interactive Question:

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#### 4.1.17. Many of the negative regulator proteins of the cell cycle were disc...

Author: OpenStax College

Many of the negative regulator proteins of the cell cycle were discovered in what type of cells?

Please choose only one answer:

- gametes
- cells in G0
- cancer cells
- stem cells

Check the answer of this question online at QuizOver.com:

Question: [Many of the negative regulator proteins OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/many-of-the-negative-regulator-proteins-openstax-college-biology?pdf=1505>

Interactive Question:

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#### 4.1.18. Which negative regulatory molecule can trigger cell suicide (apopto...

Author: OpenStax College

Which negative regulatory molecule can trigger cell suicide (apoptosis) if vital cell cycle events do not occur?

Please choose only one answer:

- p53
- p21
- retinoblastoma protein (Rb)
- cyclin-dependent kinase (Cdk)

Check the answer of this question online at QuizOver.com:

Question: [Which negative regulatory molecule can OpenStax College Biology 1](#)

Flashcards:

<http://www.quizover.com/flashcards/which-negative-regulatory-molecule-can-openstax-college-biology-1?pdf=1505>

Interactive Question:

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4.1.19. \_\_\_\_\_ are changes to the order of nucleotides in a segment of...

Author: OpenStax College

\_\_\_\_\_ are changes to the order of nucleotides in a segment of DNA that codes for a protein.

Please choose only one answer:

- Proto-oncogenes
- Tumor suppressor genes
- Gene mutations
- Negative regulators

Check the answer of this question online at QuizOver.com:

Question: [are changes to the order of nucleotides OpenStax College Biology](#)

Flashcards:

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4.1.20. A gene that codes for a positive cell cycle regulator is called a(n)...

Author: OpenStax College

A gene that codes for a positive cell cycle regulator is called a(n) \_\_\_\_\_.

Please choose only one answer:

- kinase inhibitor.
- tumor suppressor gene.
- proto-oncogene.
- oncogene.

Check the answer of this question online at QuizOver.com:

Question: [A gene that codes for a positive cell OpenStax College Biology 10](#)

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#### 4.1.21. A mutated gene that codes for an altered version of Cdk that is act...

Author: OpenStax College

A mutated gene that codes for an altered version of Cdk that is active in the absence of cyclin is a(n) \_\_\_\_\_.

Please choose only one answer:

- kinase inhibitor.
- tumor suppressor gene.
- proto-oncogene.
- oncogene.

Check the answer of this question online at QuizOver.com:

Question: [A mutated gene that codes for an altered OpenStax College Biology](#)

Flashcards:

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#### 4.1.22. Which molecule is a Cdk inhibitor that is controlled by p53?

Author: OpenStax College

Which molecule is a Cdk inhibitor that is controlled by p53?

Please choose only one answer:

- cyclin
- anti-kinase
- Rb
- p21

Check the answer of this question online at QuizOver.com:

Question: [Which molecule is a Cdk inhibitor that is OpenStax College Biology](#)

Flashcards:

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#### 4.1.23. Which eukaryotic cell cycle event is missing in binary fission?

Author: OpenStax College

Which eukaryotic cell cycle event is missing in binary fission?

Please choose only one answer:

- cell growth
- DNA duplication
- karyokinesis
- cytokinesis

Check the answer of this question online at QuizOver.com:

Question: [Which eukaryotic cell cycle event is OpenStax College Biology 10](#)

Flashcards:

<http://www.quizover.com/flashcards/which-eukaryotic-cell-cycle-event-is-openstax-college-biology-10?pdf=1505>

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4.1.24. FtsZ proteins direct the formation of a \_\_\_\_\_ that will eventuall...

Author: OpenStax College

FtsZ proteins direct the formation of a \_\_\_\_\_ that will eventually form the new cell walls of the daughter cells.

Please choose only one answer:

- contractile ring
- cell plate
- cytoskeleton
- septum

Check the answer of this question online at QuizOver.com:

Question: [FtsZ proteins direct the formation of a OpenStax College Biology](#)

Flashcards:

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